Eintellectual Property Administration P. Q Rox 272400 Fort Calins, Colorado 80527-2400

ATTORNEY DOCKET NO. 200310949-1

RADE Ventor(s):

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Michael HARVILLE

Confirmation No.:

Application No.: 10/698,111

Examiner:

Filing Date:

10/31/03

(x) under 37 CFR 1.97(b), or

Group Art Unit:

Title:

A METHOD FOR VISUAL-BASED RECOGNITION OF AN OBJECT

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

V ()	(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
()	under 37 CFR 1.97 (c) together with either a: () Statement under 37 CFR 1.97(e), or () a \$180.00 fee under 37 CFR 1.17(p), or (After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first
()	under 37 CFR 1.97 (d) together with a: () Statement under 37 CFR 1.97(e)(1) or (2), and () a \$180.00 fee set forth in 37 CFR 1.17(p). (Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of $_{$0.00}$. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

- Applicant(s) submit herewith Form PTO 1449 Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.
- () A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

(X) I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 01/22/04 OR	Respectfully submitted, Michael HARVILLE By
() I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number on on Number of pages: Typed Name: Desiree Caldwell	John P. Wagner, Jr. Attorney/Agent for Applicant(s) Reg. No. 35,398
Signature: 4 Dece Calduel	Date: 01/22/04

Telephone No.: (408) 938-9060

JAN 2 6 2004

Rev 10/03 (PTO1449)

2004				PATENT APPLICATION Sheet 1 of 5	N
.07	ГО-1449		ATTY. DOCKET NO. 200310949-1	APPLICATION NO. CONFIRMAT	ION N
LIST OF		JBLICATIONS FOR	APPLICANT	10/098,111	
APPLICA	NT'S INFORMATI STATE		Michael HARVIL		
a l	se several sheets i	f necessary)	FILING DATE	GROUP	
	- Jevaar sneed i		10/31/03		
EFERENCE	DESIGNATION	U.S. P	ATENT DOCUMENTS		
AM INER NITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appe	ar
1A					
1B					
1C					
1D					
1E					
1F					
1G					_
1H					
1I					
13					_
1K					
		FOI	REIGN PATENT DOCUM	IENTS	
	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check Franslat attach
1L					
1M					
1N					
10					
1P					
	OTHER REFI	ERENCES (includi	ng Author, Title, Date, I	Pertinent Pages, etc.)	
1Q	Ismail HARITA STEREO"; 200	OGLU, et al.; "GHC 2 ŒEÉ Procedings	OST 3D: DETECTING BOD' of the Workshop on Motic	Y POSTURE AND PARTS USING on and Video Computing (MOTION '02)
1R	Salvador RUIZ RANGE DATA 13-1+ 6, 2003	'; Pages 1-8; ICCV	NEW PARDIGM FOR REC 2003 published in IEEE IC	OGNIZING 3-D OBJECT SHAPES FROM	— М r
15	Gregory SHAK HASHING"; Pa 13-1+ 6, 2003	iges 1-8; ICCV 200	"FAST POSE ESTIMATIO 3 published in IEEE ICCV	N WITH PARAMETER-SENSITIVE conference, Nice, France, October	

JAN 2 6 2005 LET TO STATE OF THE PARTY OF TH

Rev 10/03 (PTO1449)

PATENT APPLICATION

Sheet 2 of 5

PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

APPLICATION NO. CONFIRMATION NO. ATTY. DOCKET NO. 200310949-1 10/698,111 APPLICANT Michael HARVILLE

GROUP

(Use several sheets if necessary)

REFERENCE DESIGNATION	U.S. PATENT DOCUMENTS

XAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
1A				
18				
10		·		
10				
1E				
1F				
16				
1H			-	
11				
13				
1 K				

FILING DATE

10/31/03

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
1L					
1M					
1N					
10					
1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Louis-Philippe MORENCY, et al.; "POSE ESTI published in IEEE International workshop on A France, October 17, 2003	MATION USING 3D VIEW-BASED EIGENSPACES"; Analysis and Modeling of Faces and Gestures, Nice,
	1R	"IMAGE UNDERSTANDING WORKSHOP Proc November 13-16, 1994, Pages 559-581 and	reedings of a Workshop held in Monterey, California"; 583
	15	Romer ROSALES, et al.; "ESTIMATING 3D BO Published in IEEE CVPR conference, December	ODY POSE USING UNCALIBRATED CAMERAS"; er 2001
EXAMINER			DATE CONSIDERED

FORK TO-1449 S BAOSINE

PATENT APPLICATION

APPLICATION NO. CONFIRMATION NO.

Sheet 3 of 5

10/598,111

EST UST	OF	PAT	ENTS	AND	PUBL	JCATI	ONS	FOR
			SINFO					
				CTA	TEME	D.PP		

200310949-1

ATTY. DOCKET NO.

		PATENTS AND PO INT'S INFORMATI STATE			Michael HARVILLE					
	A 1	se several sheets i			FILING DATE		GROUP			
			i necessary)		10/31/03					
REFEREN	ICE !	DESIGNATION	U.S. P	ATEN	T DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns, Lines Wher Relevant Passages or Figures Ap			
	1A									
	1B			<u> </u>						
	1C									
$\overline{}$	1D									
	1E									
	1F			-						
	1G			-			**************************************			
	1H 1I							·		
	1)									
	15 1K									
	<u>-</u> L			!		1				
			FO	REIGN	PATENT DOCUM	ENTS				
		DOCUMENT NUMBER	PUBLICATION DATE	N.	AME OF PATENTEE OR APPLICANT		Pages/Columns/Lines Where levant Passages/Figures Appear	Check if Translatio attached		
	1L									
	1M			···						
	1N									
	10						•			
	1P									
		OTHER REF	ERENCES (includi	ng Au	rthor, Title, Date, P	Pertin	ent Pages, etc.)			
	1Q	I MODELS" Page	N. KRAHNSTOEVER, et al.; "AUTOMATIC ACQUISITION AND INITIALIZATION OF KINEMATIC MODELS" Pages 1-5, Published in IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2001, Kauaii, Hawaii, December 2001							
	1R	Yoshio IWAI; " IEEE ICCV Con	POSTURE ESTIMA ference, Septembe	TION (er 1999	USING STRUCTURE A	AND	MOTION MODELS"; Published	in		
	15	Michele COVE	LL, et al.; "ARTICU ANCY CONSTRAIN	LATEC	D-POSE ESTIMATION Published in IEEE CVF	USIN PR'00	NG BRIGHTNESS- AND D, June 2000			

DATE CONSIDERED

Rev 10/03 (PTO1449)

EXAMINER

M PTO-1449

PATENT APPLICATION

Sheet 4 of 5

1 100	ΛE	DATE	AITC	ANID	DIIDI	ICATIO	NC EOE
ш	UF	PAIC	1012	MIND	PUBL	TW I IU	43 FU
A DDI	TOA	MT'S	TAIFO	RMA	MOTT	DISCLO	SURE
~			24. 0				

1	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION	NO.
	200310949-1	10/598,111		
	APPLICANT	<u> </u>		
	Michael HARVILLE			
	FILING DATE	GROUP		
		ı		

STATEMENT					Michael HARVILLE				
	(Us	se several sheets if	necessary)		FILING DATE 10/31/03		GROUP		
					ENT DOCUMENTS				
EXAMINER DOCUMENT NUMBER			PUBLICATION DATE		NAME		Pages, Columns, Lines Where Relevant Passages or Figures Appear		
	1A								
	1B			-					
	1C								
	1D						***************************************		
	1E								
	1F								
	1G								
	1H								
	1 I								
	1J			<u>. </u>					
	1 K								
		DOCUMENT NUMBER	PUBLICATION DATE		ME OF PATENTEE OR APPLICANT		Pages/Columns/Lines Where evant Passages/Figures Appear	Check if Translation attached	
	1L								
	1M					_			
	1N 10							 	
	10 1P							 	
	<u>*' </u>								
		OTHER REFE	RENCES (includin	ng Aut	hor, Title, Date, F	Pertine	ent Pages, etc.)		
	1Q	Nebojsa JOJIC, DISPARITY MA	et al.; "TRACKING PS"; Published in I	S SELF	OCCLUDING ARTIC	CULAT ptembe	ED OBJECTS IN DENSE er 1999		
	1R	Michael H. LIN, SEQUENCES";	et al.; "TRACKING Published in IEEE IG	S ARTIC	CULATED OBJECTS onference, Septemb	S IN RE per 199	EAL-TIME RANGE IMAGE 99		
	15	I SILHOUETTES"	GLU, et al.; "GHO; Pages 1-6; Publis 1998, Brisbane, Au	hed in	14th Inernational C	RT LAB Confere	BELING SYSTEM USING ence on Pattern Recognition,		

EXAMINER Rev 10/03 (PTO1449) DATE CONSIDERED

JAN 2 6 2005 FORM OF PAT

Rev 10/03 (PTO1449)

PATENT APPLICATION

Sheet 5 of 5

.0
OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DESCLOSURE
STATEMENT

(Use several sheets if necessary)

200310949-1 APPLICANT

ATTY. DOCKET NO.

APPLICATION NO. CONFIRMATION NO. 10/598,111

Michael HARVELLE FILING DATE

FILING DATE 10/31/03 GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

XAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
1L					
1M			-		
1N					
10					
1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Thad STARNER, et al.; "REAL-TIME AMERICAN SIGN LANGUAGE RECOGNITION USING DESK AND WEARABLE COMPUTER BASED VIDEO"; Pages 1-2, 4-5 and 7; M.I.T. Media Laboratory Perceptual Computing Section Technical Report No. 466
	1R	Shoichiro IWASAWA, et al.; "REAL-TIME HUMAN POSTURE ESTIMATION USING MONOCULAR THERMAL IMAGES" Pages 492-497; Published in Third International Conference on Automatic Face and Gesture Recognition, Nora, Japan, April 14-16, 1998
	15	_
EXAMINER		DATE CONSIDERED